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Notice of Allowability	Applicati n No.	Applicant(s)	
	10/619,389	FREEMAN, GARY A.	
	Examiner	Art Unit	
	Timothy L Rude	2871	

-- **The MAILING DATE of this communication appears on the cov r sheet with the correspondenc address--**
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to response filed 25 June 2004.
2. ☒ The allowed claim(s) is/are 19-61.
3. ☒ The drawings filed on 15 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on 25 June 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of USPAT 6,618,114 B2 and 6,606,142 as well as patents issued for Applications 10/309,908 and 09/882,272 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

Claims 19-61 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claim 19, relevant prior art of record did not disclose, alone or in combination, a method for manufacturing a liquid crystal display device as claimed, wherein: if at least a portion of the spacers are coated with the photoinitiator, polymerization is initiated by exposing a first side of the liquid crystal cell and a second side of the liquid crystal cell to ultraviolet light causing scission of the photoinitiator and release of free radicals around the spacers coated with the photoinitiator, and wherein polymerization is automatically initiated by the accelerator lacquer initiators after the liquid crystal and pre-polymer mixture is brought into contact with the accelerator lacquer coated spacers such that polymerization will proceed beginning

around each spacer coated with the photoinitiator and/or the accelerator lacquer initiator such that polymer is localized to a region surrounding the spacers and along a direction normal to the first substrate and the second substrate.

As to claim 59, relevant prior art of record did not disclose, alone or in combination, a method for manufacturing a liquid crystal display device as claimed, comprising steps of: initiate polymerization and bringing into contact an accelerator lacquer initiator with the mixture of pre-polymer and liquid crystal material, wherein as the polymerization proceeds a phase separation of the polymer and liquid crystal also proceeds, and

after initiation of polymerization and before completion thereof adjusting a rate of diffusion of the mixture of the pre-polymer and the liquid crystal material by at least one of adjusting reaction temperature and adjusting a viscosity of the mixture of the pre-polymer and the liquid crystal material to produce variation.

As to claims 20-58 and 60-61, they are directly or indirectly dependant upon claims with allowable subject matter above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L Rude whose telephone number is (571) 272-2301. The examiner can normally be reached on Monday through Thursday.

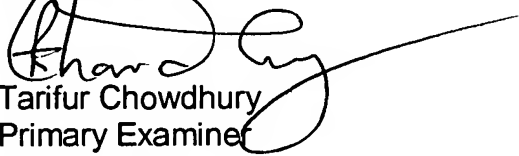
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Timothy L Rude
Examiner
Art Unit 2871



Tarifur Chowdhury
Primary Examiner
Art Unit 2871